

## DL

		Г. HR. SEC. SCH	
STD: XII	BIOLOGY	MARKS-50	
I.CHOOSE THE CORRECT ANSWER	:	30X1=30	
1. Tectona grandis is coming under family			
a) Lamiaceae b) Fabaceae	c) Dipterocaipaceae	d) Ebenaceae	
2.Plants having similar genotypes produced b	- ·		
a) clone b) haploid c) autopolyploid d	. 0		
3. People's movement for the protection of env			
<ul><li>a) Chipko movement</li><li>c) Appiko movement</li></ul>	<ul><li>b) Amirtha Devi Bishwas mo</li><li>d) None of the above</li></ul>	evement	
4. Which one is in descending order of a food	·		
a) Producers → Secondary consume		Tertiary consumers	
b) Tertiary consumers → Primary consumers	3		
c) Tertiary consumers → Secondary			
d) Tertiary consumers → Producers	s → Primary consumers →	Secondary consumers	
5. Pond ecosystem is			
<ul> <li>a) not self sufficient and self regulating</li> </ul>		ent and self regulating	
c) self sufficient and not self regulating	g d) self sufficient and s	self regulating	
6. Pedogenesis refers to	15 (3)	N O 11	
a) Fossils b) Water	c) Population	d) Soil	
7. Mycorrhiza promotes plant growth by			
a) Serving as a plant growth regulators			
c) Helping the plant in utilizing atmos	spheric nitrogen d) Protecting	the plant from infectio	
8. Totipotency refers to			
a) capacity to generate genetically ider			
b) capacity to generate a whole plant f			
c) capacity to generate hybrid protopla			
d) recovery of healthy plants from disc	eased plants.		
9. Micro propagation involves			
a) vegetative multiplication of plants b			
b) vegetative multiplication of plants k			
c) vegetative multiplication of plants b			
d) Non-vegetative multiplication of pl	lants by using microspores and	megaspores.	
10. pBR 322, BR stands for			
a. Plasmid Bacterial Recombination		b. Plasmid Bacterial Replication	
c. Plasmid Boliver and Rodriguez	d. Plasmid Baltimore	and Rodriguez	
11. Which of the following one is used as a Bio			
a. Electrophoresis b. Bior 12. <b>Assertion</b> (A): Gamma rays are generally	reactors c. Vectors	d. Electroporation	

Reason (R): Because they carry lower energy to non-ionize electrons from atom

a) A is correct. R is correct explanation of Ab) A is correct. R is not correct explanation of A

c) A is correct. R d) A and R is wro	is wrong explanation of A ong		
13. Fruit colour in squash	n is an example of		
·	atsis b) Dominant epistasis ents on Pea plants, Mendel d ion b) Seed colour	id not use	<ul><li>d) Inhibitory genes</li><li>d) Seed shape</li></ul>
15. The scar left by funic	ulus in the seed is		×
a)tegmen 16. The mode of reprodu	b)radicle ction in bacteria is by	c)epicotyls	d)hilum
<ul><li>a) Formation of g</li><li>c) Conjugation</li></ul>	gametes b) End	dospore formation d) Zoospore formation	
a. Menorrhagia - exce c. Dysmenorrhoea - i		b. Amenorrhoea - absence d. Oligomenorrhoea - pain	
(a)	Hormonal contraceptive	Prevents entry of spern prevent ovulation and fertilization	ns,
(b) (c) (d)	Vasectomy Barrier method Intra uterine device	Prevents spermatogene Prevents fertilization Increases phagocytosis sperms, suppresses spe motility and fertilizing of sperms	of rm
19. A mRNA molecule is a) Replication		c) Duplication	d) Translation
a) 3.5 million 21. The phenomenon of	b) 35000 "Industrial Melanism" demo	genome is estimated to be abo c) 35 million onstrates c) reproductive isolation d)	d) 3.1 billion
22. Darwin's finches are a	an excellent example of	c) adaptive radiation	
23. The most common su	ıbstrate used in distilleries fo	or the production of ethanol i	S
	b) Groundgram ogical treatment of waste wa b) Increase BOD c) R	c) Molasses ater is to reduce sedimentation d) Incr	d) Corn meal rease sedimentation
• .	n anaerobic sludge digesters en and hydrogen sulphide.	are	

- b) Hydrogen sulphide, methane and sulphur dioxide.
- c) Hydrogen sulphide, nitrogen and methane.
- d) Methane, hydrogen sulphide and CO<sub>2</sub>.
- 26. The genetic defect adenosine deaminase deficiency may be cured permanently by
  - a) Enzyme replacement therapy
  - b) periodic infusion of genetically engineered lymphocytes having ADA cDNA
  - c) administering adenosine deaminase activators
  - d) introducing bone marrow cells producing ADA into embryo at an early stage of development.
- 27. How many amino acids are arranged in the two chains of Insulin?
  - a) Chain A has 12 and Chain B has 13
- b) Chain A has 21 and Chain B has 30 amino acids
- c) Chain A has 20 and chain B has 30 amino acids
- d) Chain A has 12 and chain B has 20 amino acids.
- 28. PCR proceeds in three distinct steps governed by temperature, they are in order of
  - a) Denaturation, Annealing, Synthesis
- b) Synthesis, Annealing, Denaturation
- c) Annealing, Synthesis, Denaturation
- d) Denaturation, Synthesis, Annealing
- 29. Which of the following is correct for r-selected species
  - a) Large number of progeny with small size
- b) large number of progeny with large size
- c) small number of progeny with small size
- d) small number of progeny with large size
- 30. Assertion: The Environmental conditions of the tropics are favourable for speciation and diversity of organisms. Reason: The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial.
  - a) Both Assertion and Reason are true and Reason explains Assertion correctly.
  - b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
  - c) Assertion is true, but Reason is false.
  - d) Both Assertion and Reason are false.

## **II.ANSWER THE FOLLOWING QUESTIONS:**

10X2=20

- 31. Write the various steps involved in cell suspension culture.
- 32. Give the examples for micro propagation performed plants.
- 33. Write any three Advantages of Artificial seeds
- 34. Differentiate Somaclonal variations and Gametoclonal variations
- 35.List out the major gases seems to be found in the primitive earth.
- 36. Explain the three major categories in which fossilization occur?
- 37. Differentiate between divergent evolution and convergent evolution with one example for each.
- 38. Rearrange the descent in human evolution

Austrolopithecus  $\rightarrow$  Homo erectus  $\rightarrow$  Homo sapiens  $\rightarrow$  Ramapithecus  $\rightarrow$  Homo habilis.

- 39. Mention the main objections to Darwinism.
- 40. Taking the example of Peppered moth, explain the action of natural selection. What do you call the above phenomenon?
- 41.Expand (i) CFC (ii) AQI (iii) PAN
- 42. What is SMOG and how it is harmful for us?
- 43. List all the wastes that you generate, at home, school or during your trips to other places. Could you very easily reduce the generation of these wastes? Which would be difficult or rather impossible to reduce?

\*\*\*\*\*\*